

International Application No.: PCT/JP2005/005883
U.S. Patent Application No.: Unknown
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IN THE ABSTRACT:

Please replace the Abstract of the Disclosure originally filed with the above-identified patent application with the following new Abstract of the Disclosure:

ABSTRACT OF THE DISCLOSURE

An ultrasonic transducer includes a piezoelectric resonator including a pair of electrodes sandwiching a piezoelectric body and provided with the backing layer in contact with one of the electrodes of the piezoelectric resonator and having the same acoustic characteristic impedance as the piezoelectric body. A method includes the step of driving the ultrasonic transducer so as to satisfy a condition: $2T_h \leq T_d \leq 6T_h$ where T_h is a propagation time of an ultrasonic wave in the piezoelectric body sandwiched by the pair of electrodes, and T_d is a pulse width of a drive pulse driving the piezoelectric resonator.